I CLAIM:

- 1. A flow averaging probe for measuring fluid flow, comprising:
 - an elongate hollow probe;
 - a plurality of apertures disposed on said probe for receiving fluid flow therethrough;
 - sensor means proximate said apertures for sensing accumulated fluid flow;
 - transmitter means for transmitting sensed data from said sensors;
 - signal processing means for processing transmitted data; and
 - discharge means for discharging fluid sensed by said sensor means and of said probe.
- The probe as set forth in claim 1, wherein said probe includes connection means for connecting a plurality of said probes together.
- The probe as set forth in claim 1, wherein said transmitter means and said signal processing means are integral with said probe and mounted integrally therewith.
- 4. The probe as set forth in claim 1, wherein said apertures are equidistantly spaced along a longitudinal axis of said probe.
- 5. A flow averaging probe for measuring fluid flow in a conduit, comprising in combination:
 - a conduit for transporting a fluid;

- an elongate hollow probe releasably connected within said conduit;
- a plurality of apertures disposed on said probe for receiving fluid flow therethrough;
- sensor means proximate said apertures for sensing accumulated fluid flow;
- transmitter means for transmitting sensed data from said sensors;
- signal processing means for processing transmitted data; and
- discharge means for discharging fluid sensed by said sensor means and of said probe.
- 6. The combination as set forth in claim 5, wherein said probe includes connection means for connecting a plurality of said probes together.
- 7. The combination as set forth in claim 5, wherein said apertures are equidistantly spaced along a longitudinal axis of said probe.
- 8. The combination as set forth in claim 1, wherein said transmitter means and said signal processing means are integral with said probe and mounted integrally therewith.
- 9. A method of measuring fluid flow in a conduit, comprising:
 - providing a probe having a hollow elongate body with a plurality of apertures therethrough and sensor means proximate said apertures, said apertures for receiving fluid therethrough;

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- positioning said probe within a fluid stream to be measured;
- collating individual fluid streams from said apertures within said probe;
- activating said sensor means by fluid entering said apertures to obtain data generated by a collated stream; and
- averaging obtained data to determine a representative flow rate.
- 10. The method as set forth in claim 9, wherein fluid pressure is sensed at each aperture of said plurality of apertures.
- 11. The method as set forth in claim 9, further including the step of generating a flow profile with averaged data.
- 12. The method as set forth in claim 9, further including the step of correcting for variations in fluid pressure at each of said apertures.
- 13. The method as set forth in claim 9, further including the step of connecting a plurality of probes for determining flow data.
- 14. The method as set forth in claim 9, further including the step of averaging data from said plurality of said probes.